Alex Feinberg

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SKILLS

React.js, Redux, Express, NodeJs, Sequelize, SQLAlchemy, Flask, JavaScript (ES6+), Python, Redis, Celery, RESTful APIs, SQL, SQLite, Git, Docker, HTML5, CSS3, AWS S3, Websockets, Web Scraping, MongoDB

EXPERIENCE

Co-Founder/Lead Software Engineer, Angelify.io 2021-Present

- Led architecture and system design for overall fault-tolerant, scalable, full-stack web application
- Designed a SQL relational database layout by embracing principles of inheritance and polymorphic associations ultimately increasing future backend development speed by 25%
- Implemented a RESTful API using Flask and leveraged Flask Blueprint to allow for highly a modularized organization of endpoints significantly improving code maintainability
- Extracted data from various websites through reverse engineering API endpoints and constructing algorithmic approaches to parse response data
- Constructed automated data pipelines to transfer, normalize and store job application, recruiter, and company information in noSQL database (MongoDB) for seamless handover to Data Science team
- Leveraged background worker queues with Celery allowing users to initiate asynchronous job application and outreach automation
- Configured Redis to function as a broker between backend servers and background workers, allowing for various API endpoints to retrieve, format, and serve status updates on active automated tasks
- Designed frontend experience through a single page application (SPA) with React Router to enable dynamic client side routing and leveraging React to build reusable components saving dozens of hours of development time through strong documentation, consistent API's, and building the foundation for application extensibility
- Integrated HTTP polling on the frontend to retrieve periodic task updates and display live task progress improving overall user experience
- Utilized automated Postman tests to ensure API functionality and efficacy in coordination with Selenium scripts for scalable and automated UI tests
- Deployed into production using separate containerized servers for each cloud function, improving fault tolerance

Software Engineering Intern, Triton Research Jun 2021 - Aug 2021

- Extracted data from websites utilizing API's and python frameworks such as: Scrapy, Beautiful Soup, Requests, and Selenium
- Developed object-oriented programs to automate data extraction, normalization, and archiving of data in cloud platform for future analysis currently in production use
- Utilized TypeScript, React, and Redux to create a UI platform to display extracted data used by Corporate Finance divisions, Hedge Funds, and Private Equity firms
- Implemented various algorithmic approaches and determined appropriate data structures to collect various insights from extracted data allowing for expanded functionality for end-users
- Leveraged open-sourced software development tools such as Git and developed and deployed on AWS cloud platform (S3, EC2)

Marketing Intern, *Big Fish Results* Summers 2018, 2019

- Managed online reputation and presence for clients across several industries including Finance (Hedge Funds).
- Conducted and presented market research for content syndication and competitive intelligence to launch new products.

PROJECTS

Transmit Live Site | Github

A full-stack web application clone of Slack built using Python (Flask, SQLAlchemy), React.js, Redux, HTML5, CSS3

- Utilized Python and JavaScript implementations of Socket.io to enable live messaging functionality over a websocket server
- Developed a RESTful API using Flask to enable full CRUD functionality for core Slack features including: Workspaces, Channels, Messages, Direct Messages, and User Authentication
- Constructed SQL table models and relationships using Python's SQLAlchemy ORM for seamless development and database version control
- Styled React components using a multitude of CSS features including both Flexbox and CSS Grid

EDUCATION

Marist College - *BS - Major: Finance, Minor: Data Science, GPA: 3.7/4.0, Honors: Magna Cum Laude*

App Academy - Immersive software development course with focus on full stack web development